(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 10 February 2005 (10.02.2005)

(10) International Publication Number WO 2005/012236 A1

(51) International Patent Classification7: 265/04

C07C 263/18,

(21) International Application Number:

PCT/JP2004/011017

(22) International Filing Date: 27 July 2004 (27.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2003-283694 60/493,459

31 July 2003 (31.07.2003) JP 8 August 2003 (08.08.2003)

(71) Applicant (for all designated States except US): SHOWA DENKO K.K. [JP/JP]; 13-9, Shibadaimon 1-chome, Minato-ku, Tokyo, 1058518 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MORINAKA, Katsutoshi [JP/JP]; c/o SHOWA DENKO K.K., 111, Aza-Nagayachi, Ooaza-Higashinagahara, Kawahigashi-machi, Kawanuma-gun, Fukushima, 9693431 (JP). ISHIKAWA, Toshiaki [JP/JP]; c/o SHOWA DENKO K.K., 111, Aza-Nagayachi, Ooaza-Higashinagahara, gashi-machi, Kawanuma-gun, Fukushima, 9693431 (JP). HOSHI, Kazuyoshi [JP/JP]; c/o SHOWA DENKO K.K.,

111, Aza-Nagayachi, Ooaza-Higashinagahara, Kawahigashi-machi, Kawanuma-gun, Fukushima, 9693431 (JP).

(74) Agent: SUZUKI, Shunichiro; S.SUZUKI & ASSO-CIATES, Gotanda Yamazaki Bldg. 6F, 13-6, Nishigotanda 7-chome, Shinagawa-ku, Tokyo, 1410031 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: STABILIZED (METH)ACRYLOYLOXYALKYL ISOCYANATE, A PROCESS FOR STABILIZATION THEREOF AND A PROCESS FOR PREPARATION OF THE SAME

(57) Abstract: The present invention provides a stabilized (meth)acryloyloxyalkyl isocyanate, a process for stabilization thereof and a process for preparation of the same. More particularly, it provides a (meth)acryloyloxyalkyl isocyanate having a small hydrolyzable chlorine content and good storage stability, a process for stabilizing a (meth)acryloyloxyalkyl isocyanate prepared using phosgene which process comprises decreasing the amount of a hydrolyzable chlorine with purification and a process for preparation of a stabilized (meth)acryloyloxyalkyl isocyanate. An acidic gas such as carbon dioxide or the like was forcedly dissolved in (meth)acryloyloxyalkyl isocyanate, particularly (meth)acryloyloxyalkyl isocyanate which content of hydrolyzable chlorine is decreased with purification and thereby the storage stability of the (meth)acryloyloxyalkyl isocyanate is improved.

